

Application No. 09/545,283

Applicant(s): Boyle et al.

Title: Methods and Materials Relating to Novel C-type Lectin Receptor-like Polypeptides and Polynucleotides

Clean Version of the Drawings

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BLASTP ALIGNMENT OF C-TYPE LECTIN RECEPTOR-LIKE WITH MOUSE MACROPHAGE C-TYPE LECTIN

Score = 412 (145.0 bits), Expect = 1.2e-37, P = 1.2e-37

Identities = 85/215 (39%), Positives = 119/215 (55%), Frame = +1

```
SEQ ID NO. 4      5 EEPQDREKGLWVQLKVMAMVVSILLVSVCFVSSVVPNFMYSKTVKRLSKLREYQQY 64
C-Type Lectin Receptor-Like:
    EE Q + KG    QL    AAVSI  LS CF  + +V H++    T    + KL +Y

Macrophage C-Type Lectin:      4 EESQMSKGTRHPQLIPCVFAVVSISFLSACFISTCLVTHHYFLRWTRGSVVVKLSDY--- 60

SEQ ID NO. 4      65 HSSLTCVME-----GKDIEDWSCCPTPWTSTFQSSCYFISTGMQSWTKSQKNCVMSGADLVV 120
C-Type Lectin Receptor-Like:
    H+ +TC+ E    G    W+CCP  W +FQS+CYF    Q+W +S++NCS M + LV

Macrophage C-Type Lectin:      61 HTRVTCIREEPQPGATGGTWTCCPVSWRAFQSNCFPLNDNQTHESERNCSGMSSHLVT 120

SEQ ID NO. 4      121 INTTEEHDFIHNLRNSSFYGLGSHPRGRHWQVDHTPYNENVTFWHSGEPNN-LDER 179
C-Type Lectin Receptor-Like:
    INT  E +F+   L +  SYFLGL+    WQWVD TP+N +  FW  GE N+ ++E

Macrophage C-Type Lectin:      121 INTEAEQNFTQLLDKRFSYFLGLADENVEGQWQWVDKTPFNPHTVFWKEGESNDFMEED 180

SEQ ID NO. 4      180 CAIINFRSSQEWGNDIHCHVPHKSICEMKKIYIMKYS 218
C-Type Lectin Receptor-Like:
    C ++      ++W WND  CH  + IC++  I    K  S

Macrophage C-Type Lectin:      181 CVVL-VHVHEKVVWVNDPCHFEVRRICKLPGITFNWKPS 218
```

FIG. 1

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BLASTP ALIGNMENT OF C-TYPE LECTIN RECEPTOR-LIKE WITH DENDRITIC CELL IMMUNORECEPTOR

Score = 529 (186.2 bits), Expect = 4.8e-50, P = 4.8e-50

Identities = 93/188 (49%), Positives = 130/188 (69%), Frame = +1

```
SEQ ID NO. 4      26 VVSILLLSVCFVSSVVPNFMYSKTVKRLSKLREYQQYHSSLTCVMEGKDIED--WSCC 83
C-Type Lectin Receptor-Like:
      ++ LLL++ F ++ V+      + K + L K + H++L CV + +E+ WSCC

Dendritic Cell Immunoreceptor: 51 LIPFLLLAISFFIAFVI----FFQYSQILLEKKTTELVTLECVKKNMPVEETAWSCC 106

SEQ ID NO. 4      84 PTPWTSFQSSCYFISTGMQSWTKSQKNCVSGADLVVINTTEEHDFIIHNLKRNSSYFLG 143
C-Type Lectin Receptor-Like:
      P W SF S+CYFIST SW S+K+C+ M A L+VINT EE DFI NL+ S+YF+G

Dendritic Cell Immunoreceptor: 107 PKNWKSFSNCFYISTESASWQSEKDCARMEAHLLVINTQEEQDFIFQNLQEESAYFVG 166

SEQ ID NO. 4      144 LSHPRGRRHQWVDHTPYNENVTFWHSCEPNLDERCAIINFSS-QEWGWNDIHCHVPH 202
C-Type Lectin Receptor-Like:
      LS P G+RHWQWVD TPYNE+ TFWH EP++ +ERC ++NFR S + WGWND++C P

Dendritic Cell Immunoreceptor: 167 LSDPEGQRHWQWVDQTPYNESSTFWHPREPSPDNERCVLNFRKSPKRWGNDVNCILGPQ 226

SEQ ID NO. 4      203 KSICEMKKIYI 213
C-Type Lectin Receptor-Like:
      +S+CEM KI++

Dendritic Cell Immunoreceptor: 227 RSVCEMMKIHL 237
```

FIG. 2

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BLASTP ALIGNMENT OF C-TYPE LECTIN RECEPTOR-LIKE WITH C-TYPE LECTIN DDB27

Score = 529 (186.2 bits), Expect = 4.8e-50, P = 4.8e-50

Identities = 93/188 (49%), Positives = 130/188 (69%), Frame = +1

```
SEQ ID NO. 4
C-Type Lectin Receptor-Like:
26 VVSILLLSVCFTVSSVPHFMYSKTVKRLSKLREYQQYHSSLTCVMEGKDIED--WSCC 83
++ LLL++ F ++ V+      + K + L K  + H++L CV + +E+ WSCC

DDB27:
51 LIFFLLLAISFFIAFVI-----FFQYSQLEKKTTELVTLECVKKNMPVEETAWSCC 106

SEQ ID NO. 4
C-Type Lectin Receptor-Like:
84 PTPWTSFQSSCYFISTGMQSWTKSQKNCVSGADLVVINTTEEHDFIIHNLKRNSSYFLG 143
P W SF S+CYFIST SW S+K+C+ M A L+VINT EE DFI NL+ S+YF+G

DDB27:
107 PKNWKSFSNCCYFISTESASWQDSEKDCARMEAHLLVINTQEEQDFIFQNLQEEASAYFVG 166

SEQ ID NO. 4
C-Type Lectin Receptor-Like:
144 LSHPRGRHWQWVDHTPYNENVTFWHSGEPNLDERCAIINFRSS-QEWGWNDIHCHVPH 202
LS P G+RHWQWVD TPYNE+ TFWH EP++ +ERC ++NFR S + WGNND++C P

DDB27:
167 LSDPEGQRHWQWVDQTPYNESSTFWHPREPSPDPNERCVVLNFRKSPKRWGNVDVNCGLGPQ 226

SEQ ID NO. 4
C-Type Lectin Receptor-Like:
203 KSICEMKKIYI 213
+S+CEM KI++

DDB27:
227 RSVCEMMKIHL 237
```

FIG. 3

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BLASTP ALIGNMENT OF C-TYPE (CALCIUM DEPENDENT, CARBOHYDRATE RECOGNITION DOMAIN) LECTIN RECEPTOR-LIKE, SUPERFAMILY MEMBER 6

Score = 448 (157.7 bits), Expect = 1.8e-41, P = 1.8e-41

Identities = 92/209 (44%), Positives = 130/209 (62%), Frame = +1

SEQ ID NO. 4	3	PEEP-QD-REKGLWFLKVMMAVVSILLSVCFVSSVPHFMYSKTVKRLSKLRE	60
C-Type Lectin Receptor-Like:		P E+P +D R+ G L + S+ ++ +LLL++ F V+ ++ YS+ ++ +	
Mouse C-Type:	29	PREKPIRDLRKPGSP--SLLLTSLMLL-LLLLAITFLVAFIIFYQ-KYSQLLEEKKAANK	84
SEQ ID NO. 4	61	YQYHSSSLTCVMEGKDIED--WSCCPTPWTFSQSSCYFIST--GMQSWTKSQKNCVMDGA	116
C-Type Lectin Receptor-Like:		H+ L C +ED WSCCP W F S CY + T SW KS++NCS MGA	
Mouse C-Type:	85	IM--HNELNCTKSVSPMEDKVMSCCPKDWRLFGSHCYLVPTVSSASWNKSEENC SRMGA	142
SEQ ID NO. 4	117	DLAVINTTEEHDFIIHNLKRNSSYFLGLSHPRGRRHQWVDHTPYNENVTFWHSGEPNL	176
C-Type Lectin Receptor-Like:		LVVI + EE DFI L +++YF+GL G R WQWVD TPY E++TFWH+GEP++	
Mouse C-Type:	143	HLVVIQSQEEQDFITGILDTHAAYFIGL-WDTGHRQWQWVDQTPYEESITFWHNGEPSSG	201
SEQ ID NO. 4	177	DERCAIINFRSSQEWGNDIHCHVPHKSICEMKKI	211
C-Type Lectin Receptor-Like:		+E+CA I +R GWNDI C + KS+C+MKKI	
Mouse C-Type:	202	NEKCATIIRWKTGWGWNDISCSLKQKSVCMKKI	236

FIG. 4